Granuloma and Miscellaneous Conditions

“Acti”

- **Actinobacillosis (bacteria)**
  - **granulomas in lymph nodes of neck, muscles, lungs, other organs**
- **Actinomycosis (bacteria)**
  - **Granulomas in jawbone, lymph nodes, etc**

Swelling of hard or soft tissue of head/neck

“Acti”

- Disposition depends on level of involvement
  - Lung, lymph node spread requires condemnation
  - Localized to head-may condemn head only

Lung involvement

Localized to tongue

Tuberculosis

- ***Mycobacterium bovis, M. tuberculosis***
- ***M. avium complex*** **(waterborne emerging pathogen)**
- **Many US states declared “free” but interstate and Mexican or Canadian cattle are frequently shipped into US**
- **Skin test standard (reactors = suspect)**

Ante-mortem findings

- Weakness, weight loss
- Fever, cough
- Swollen and firm superficial lymph nodes

Post-mortem

- Lymph nodes (LN), lungs of cattle
- MAC in swine affect digestive tract primarily (and LNs)
- Generalized lesions require condemnation of carcass
- Localized lesions are removed and remainder “passed for cooking” …170F for 30 min

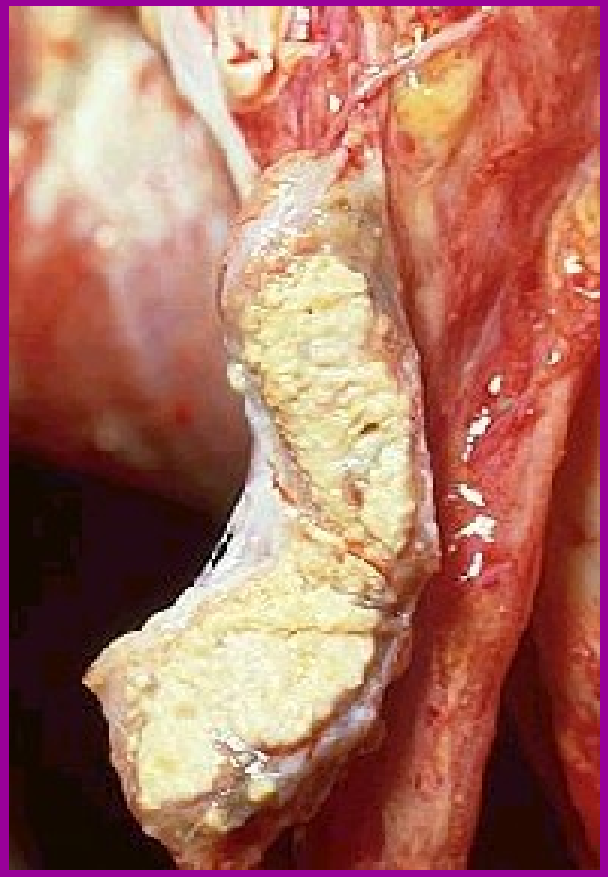
Massive lung granuloma

Liver granulomas in swine

Coccidioidal Granuloma

- Endemic to arid regions of US Southwest, Central and South America
- Lung/lymph node lesions resemble TB
- Condemn if generalized changes or diffuse LN/lung disease
- Difficult to transmit from animal to human

Coccidioidal granulomas



Bruises and injuries

- Downers, fractured limbs, wounds, etc
- Condemn if generalized effects on PM

- **Extensive carcass bruising would require condemnation**
- **May be due to trauma or septicemia**

Emaciation

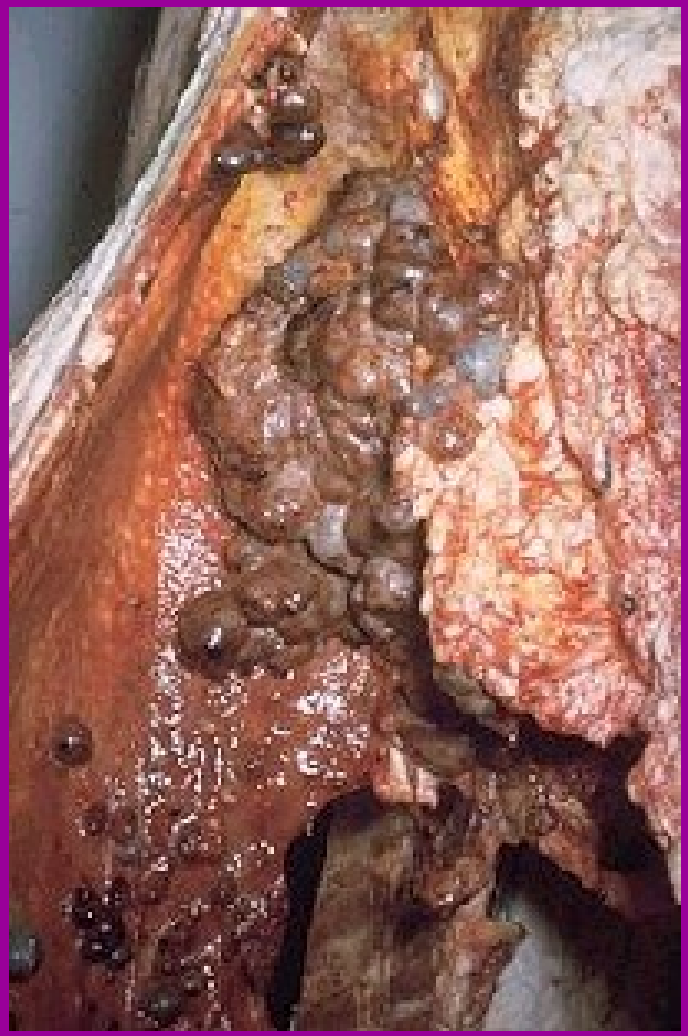
- Not just a “skinny cow”
- PM findings of serous infiltration of virtually all visceral and body fat
- Condemned (but OK for pet food)

Serous infiltration of fat

Uremia

- Buildup of urinary waste in bloodstream
- Caused by urinary tract blockage
- May smell urinary odor on exhaled breath
- Condemn if odor to tissues

Uremia



Skin Conditions

- Redness, burns, parasites, baldness, ringworm, photosensitization
- Severe conditions with associated generalized disease require condemnation

Skin Lesions

Asphyxia

- Seen in swine that enter scalding vat alive and die of suffocation
- Generalized hyperemic (reddened) appearance to carcass/viscera requires condemnation
- May note water-logged lungs